

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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|--|--|--|--|--|
| 1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | | 5. LEASE DESIGNATION AND SERIAL NO. SF 078040 | |
| b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | |
| 2. NAME OF OPERATOR Tenneco Oil Company | | | 7. UNIT AGREEMENT NAME | |
| 3. ADDRESS OF OPERATOR P.O. Box 3249, Englewood, CO 80155 | | | 8. FARM OR LEASE NAME Mudge Com B | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1520' FSL, 1715' FEL At proposed prod. zone | | | 9. WELL NO. 1E | |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 4.87 miles from Aztec, New Mexico | | | 10. FIELD AND POOL, OR WILDCAT Basin Dakota | |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1520' | | | 11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA J Sec 11, T31N, R11W | |
| 16. NO. OF ACRES IN LEASE 2201.83 | | | 12. COUNTY OR PARISH San Juan | |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL E 320 | | | 13. STATE New Mexico | |
| 18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. | | | 20. ROTARY OR CABLE TOOLS Rotary | |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5898' ground | | | 22. APPROX. DATE WORK WILL START* January, 1982 | |

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|-------------------------------|
| 12 1/4" | 9 5/8" | 36# | ± 250' | Circulate cement to surface |
| 8 3/4" | 7" | 23# | ± 4850' | Circulate cement to surface |
| 6 1/4" | 4 1/2" | 10.5#, 11.6# | ± 7260' | Circulate cement to liner top |

See attached drilling procedure.

Gas is dedicated.

This action is subject to administrative
appeal pursuant to 30 CFR 290.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Don H. Morrison TITLE Production Analyst DATE August 26, 1981
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Dean Elliott TITLE For James F. Sims DATE DEC 18 1981
CONDITIONS OF APPROVAL, IF ANY: District Supervisor